



##

FIG. 1a



FIG. 1b



FIG. 1c



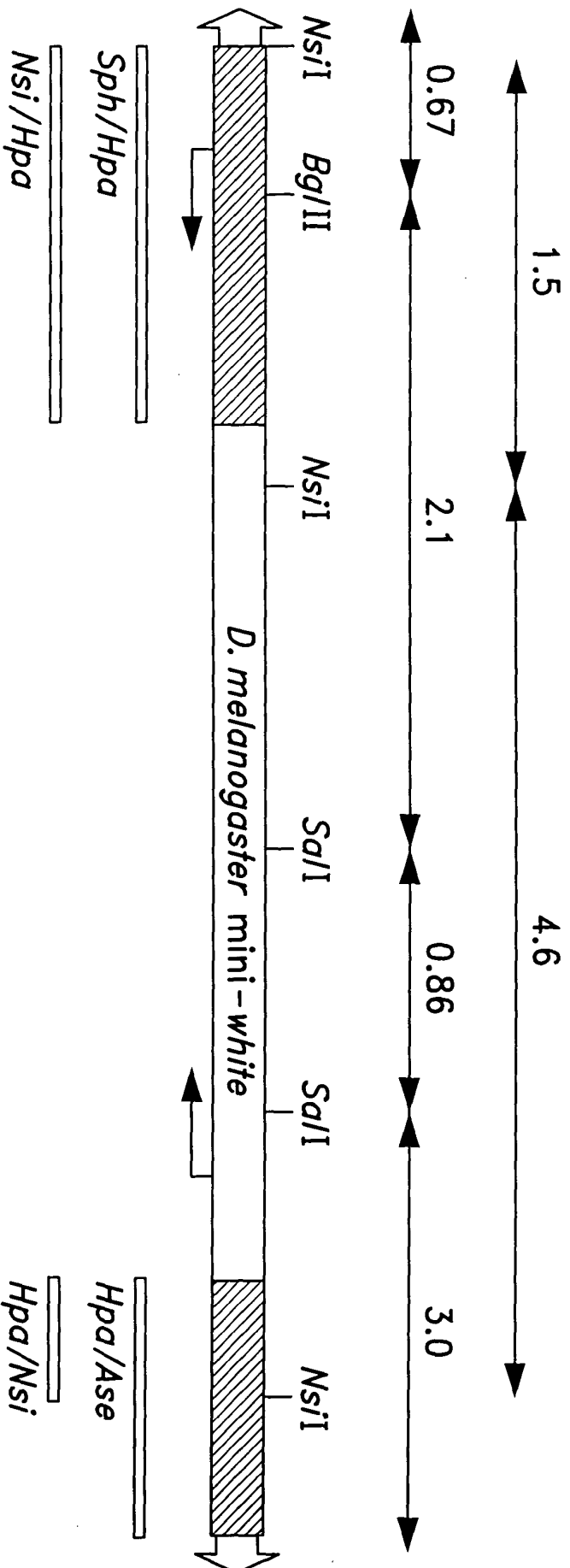


Fig. 2a



*Bgl*II digestion - *Sph*/Hpa probe

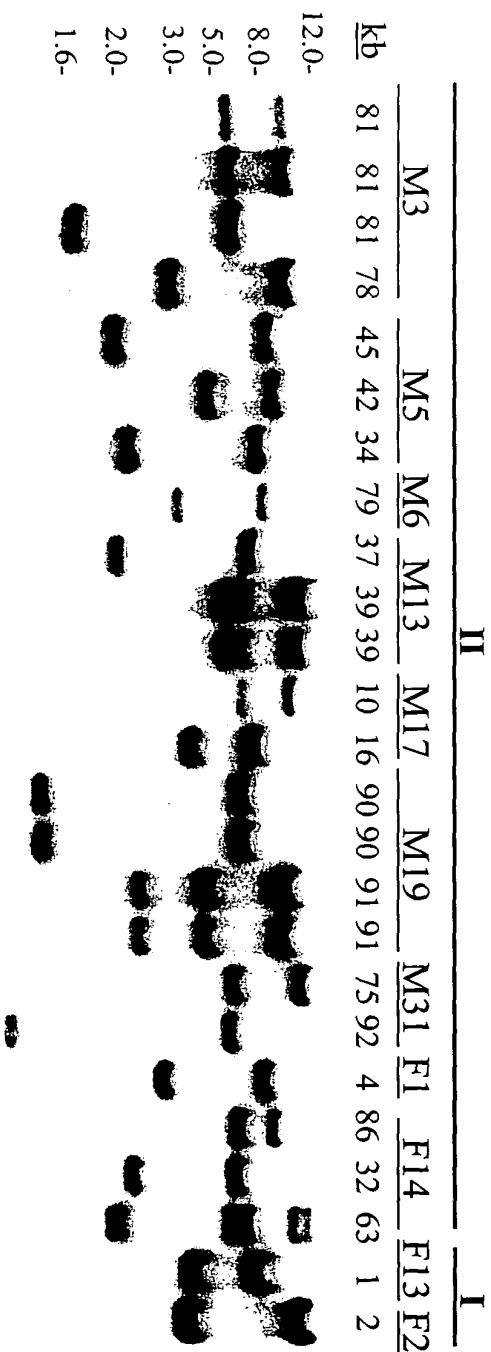


Fig. 2b



SalI digestion - *HpaI*/*Ase* probe

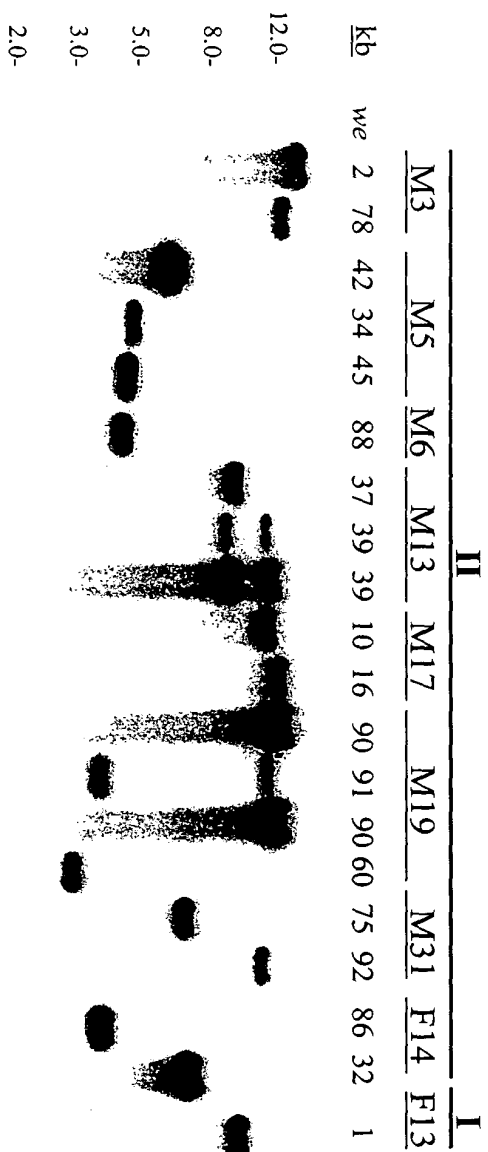


Fig. 2c



*Nsi*I digestion - *Nsi*/*Hpa* + *Hpa*/*Nsi* probes

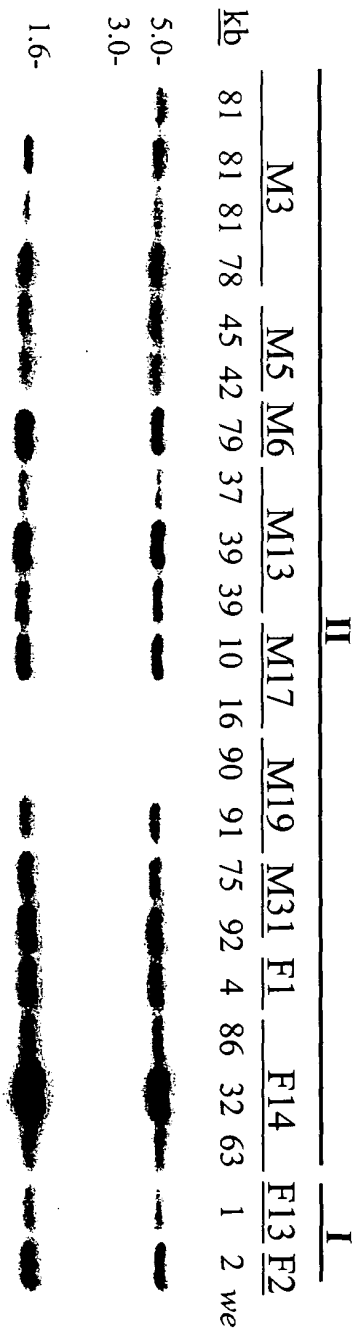


Fig. 2d

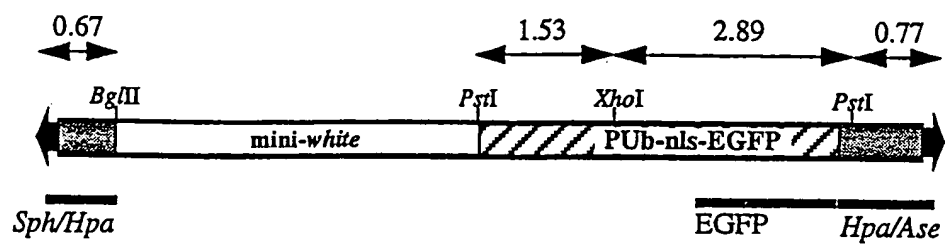


FIG. 3a



*Bgl*III digestion - *Sph*I/*Hpa*I probe *Xho*I digestion - *Hpa*I/*Ase*I probe

kb M9 M4 M12 M23 M47 F10 M9 M4 M12 M23 M47 F10 wt



FIG. 3b

FIG. 3c

*Pst*I digestion - *Hpa*/Ase+EGFP probe

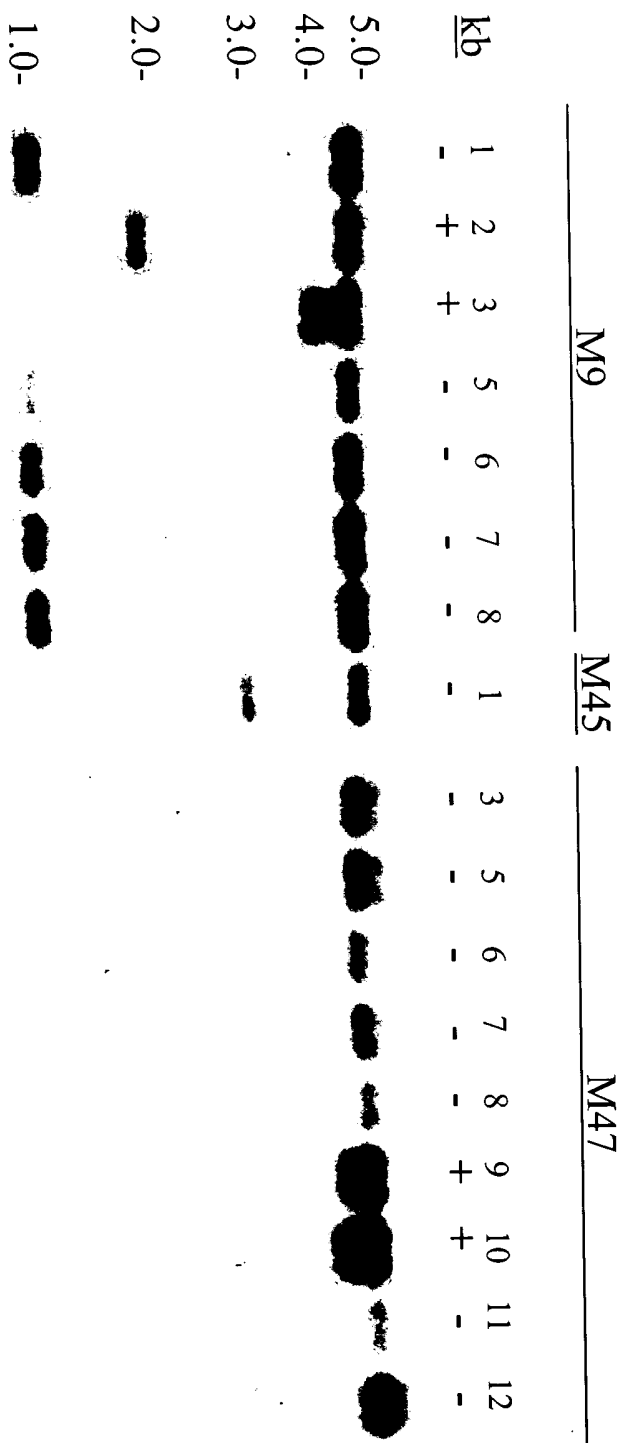


FIG. 3d



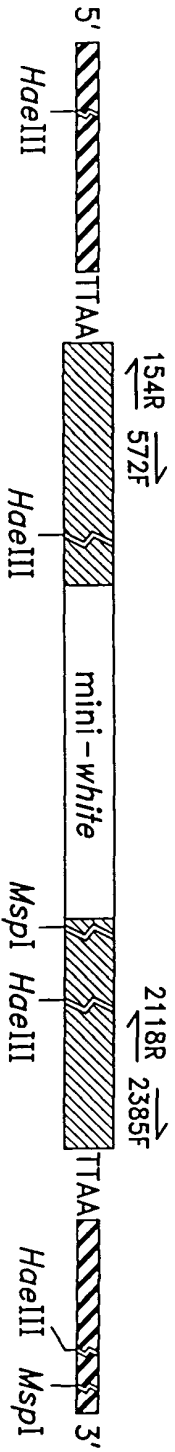


Fig. 4a

p3E1.2 aagcgcaatctttTTAA -piggyBac- TTAAtaatagtttcta

F1-2 aaaaagactgactatTTAA -piggyBac- TTAAtaagcacactgagtc

M17-4 aaaatgtcgtctagTTAA -piggyBac- TTAaagccgtatatcagat

M31-6 aaatgaacgaattttTTAA -piggyBac- TTAAtggtttttagttgt

FIG. 4b



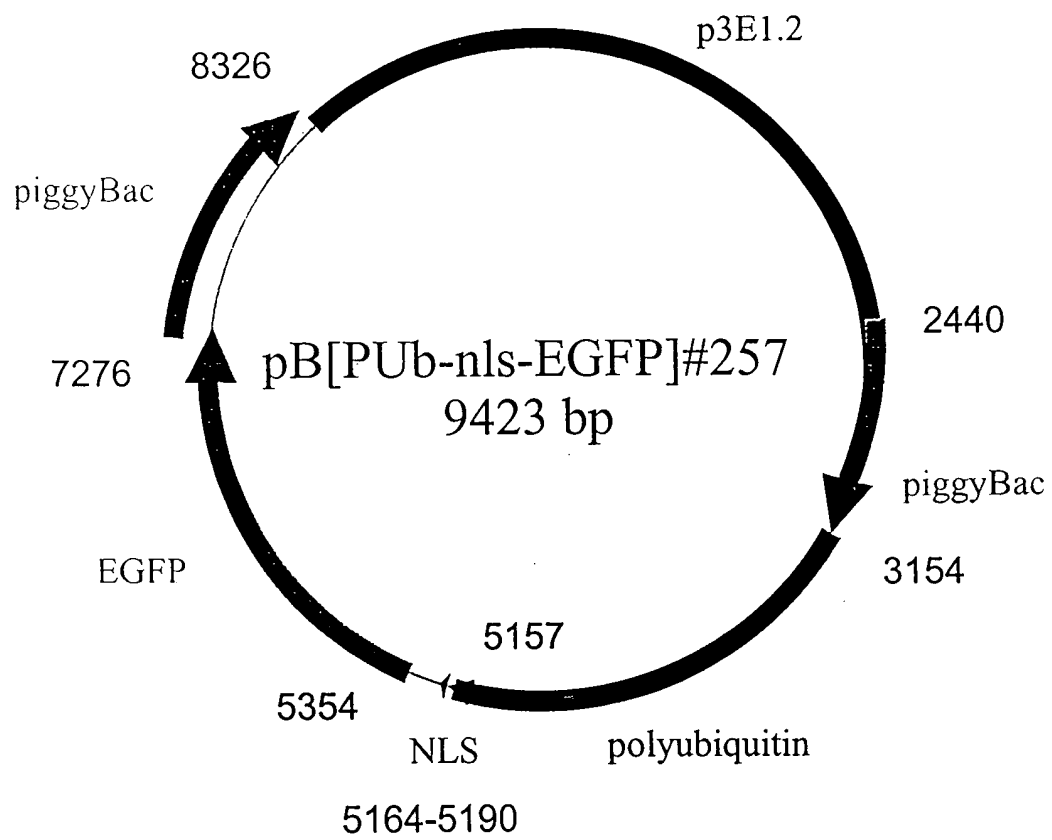


FIG. 5



10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
GACGAAAGGG	CCTCGTGATA	CGCCTATTTT	TATAGGTTAA	TGTCATGATA	50
ATAATGGTTT	CTTAGACGTC	AGGTGGCACT	TTTCGGGGAA	ATGTGCGCGG	100
AACCCCTATT	TGTTTATTTT	TCTAAATACA	TTCAAATATG	TATCCGCTCA	150
TGAGACAATA	ACCCGTGATA	ATGCTTCAAT	AATATTGAAA	AAGGAAGAGT	200
ATGAGTATTC	AACATTTCCG	TGTGCCCCCT	ATTCCCTTTT	TTGCGGCATT	250
TTGCCTTCCT	GTTTTTGCTC	ACCCAGAAAC	GCTGGTGAAA	GTAAAAGATG	300
CTGAAGATCA	GTTGGGTGCA	CGAGTGGGTT	ACATCGAACT	GGATCTCAAC	350
AGCGGTAAGA	TCCTTGAGAG	TTTTCGCCCC	GAAGAACGTT	TTCCAATGAT	400
GAGCACTTTT	AAAGTTCTGC	TATGTGGCGC	GGTATTATCC	CGTATTGACG	450
CCGGGCAAGA	GCAACTCGGT	CGCCGCATAC	ACTATTCTCA	GAATGACTTG	500
GTTGAGTACT	CACCAGTCAC	AGAAAAGCAT	CTTACGGATG	GCATGACAGT	550
AAGAGAATTA	TGCAGTGCTG	CCATAACCAT	GAGTGATAAC	ACTGCGGCCA	600
ACTTACTTCT	GACAACGATC	GGAGGACCGA	AGGAGCTAAC	CGCTTTTTTG	650
CACAACATGG	GGGATCATGT	AACTCGCCTT	GATCGTTGGG	AACCGGAGCT	700
GAATGAAGCC	ATACCAAACG	ACGAGCGTGA	CACCAAGATG	CCTGTAGCAA	750
TGGCAACAAC	GTTGCGCAAA	CTATTAACTG	GCGAACTACT	TACTCTAGCT	800
TCCCCGCAAC	AATTAAATAGA	CTGGATGGAG	GCGGATAAAG	TTGCAGGACC	850
ACTTCTGCGC	TGCGCCCCCT	CGGCTGGCTG	GTTTATIGCT	GATAAATCTG	900
GAGCCGGTGA	GCGTGGGTCT	CGCGGIATCA	TTGCAGCACT	GGGGCCAGAT	950
GGTAAGCCCT	CCCGTATCGT	AGTTATCTAC	ACGACCGGGA	GTCAGGCAAC	1000
TATGGATGAA	CGAAATAGAC	AGATCGCTGA	GATAGGTGGC	TCACTGATTA	1050
AGCATTTGGTA	ACTGTCAGAC	CAAGTTTACT	CATATATACT	TTAGATTGAT	1100
TTAAAACTTC	ATTTTTTAATT	TAAAAGGATC	TAGGTGAAGA	TCCTTTTTGA	1150
TAATCTCATG	ACCAAAATCC	CTTAACTGTA	GTTTTCGTTC	CACTGAGCGT	1200
CAGACCCCGT	AGAAAAGATC	AAAGGATCTT	CTTGAGATCC	TTTTTTTTCTG	1250
CGCGTAATCT	GCTGCTTGCA	AACAAAAAAA	CCACCGCTAC	CAGCGGTGGT	1300
TTGTTTGGCG	GATCAAGAGC	TACCAACTCT	TTTTCCGAAG	GTAAGTGGCT	1350
TCAGCAGAGC	GCAGATACCA	AATACTGTCC	TTCTAGTGTA	GCCGTAGTTA	1400
GGCCACCACT	TCAAGAACTC	TGTAGCACCG	CCTACATAAC	TCGCTCTGCT	1450
AATCCTGTTA	CCAGTGGCTG	CTGCCAGTGG	CGATAAGTCC	TGCTTTACCG	1500
GGTTGGACTC	AAGACGATAG	TTACCGGATA	AGGCGCAGCG	GTCGGGCTGA	1550
ACGGGGGGTT	CGTGACACAC	GCCAGCTTGG	GAGCGAACGA	CCTACACCGA	1600
ACTGAGATAC	CTACAGCGTG	AGCATTGAGA	AAGCGCCACG	CTTCCCGAAG	1650
GGAGAAAGGC	GGACAGGTAT	CCGGTAAGCG	GCAGGGTCCG	AACAGGAGAG	1700
CGCACGAGGG	AGCTTCCAGG	GGGAAACGCC	TGGTATCTTT	ATAGTCTCTG	1750
CGGGTTTCGC	CACCTCTGAC	TTGAGCGTCC	ATTTTGTGTA	TGCTCGTCAG	1800

FIG. 6a



10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
GGGGGCGGAG	CCTATGGAAA	AAGCCAGCA	ACGCGCCTT	TTTACGGTTC	1850
CTGGCCTTTT	GCTGGCCTTT	TGCTCACATG	TTCTTTCTCTG	CGTTATCCCC	1900
TGATTCTGTG	GATAACCGTA	TTACCGCCTT	TGAGTGAGCT	GATACCGCTC	1950
GCCGCAGCCG	AACGACCGAG	CGCAGCGAGT	CAGTGAGCGA	GGAAGCGGAA	2000
GAGCGCCCAA	TACGCAAACC	GCCTCTCCCC	GCGCGTTGGC	CGATTTCATT	2050
ATGCAGCTGG	CACGACAGGT	TTCCCCACTG	GAAAGCGGGC	AGTGAGCGCA	2100
ACGCAATTAA	TGTGAGTTAG	CTCACTCATT	AGGCACCCCA	GGCTTTTACAC	2150
TTTATGCTTC	CGGCTCGIAT	GTGTGTGTGA	ATTGTGAGCG	GATAACAATT	2200
TCACACAGGA	AACAGCTATG	ACCATGATTA	CGAATTTCAG	CTCGGTACCC	2250
GGGGATCCTC	TAGAGTCGAC	CTGCAGGCAT	GCAAGCTTGC	ATGCCCTGCAG	2300
GTCGACGCTC	GCGCGACTTG	GTTTGCCATT	CTTTAGCGCG	CGTCGCGTCA	2350
CACAGCTTGG	CCACAATGTG	GTTTTTGTCA	AAOGAAGATT	CTATGACGTG	2400
TTTAAAGTTT	AGGTTCGAGTA	AAGCGCAAAT	CTTTTTTAAAC	CCTAGAAAGA	2450
TAGTCTGCGT	AAAATTGACG	CATGCATTCT	TGAAATATTG	CTCTCTCTTT	2500
CTAAATAGCG	CGAATCCGTC	GCTGTGCATT	TAGGACATCT	CAGTCGCCGC	2550
TTGGAGCTCC	CGTGAGGCGT	GCTTGTCAAT	GCGGTAAAGTG	TCACTGATTT	2600
TGAACTATAA	CGACCGCGTG	AGTCAAATG	ACGCATGATT	ATCTTTTACG	2650
TGACTTTTAA	GATTTAACTC	ATACGATAAT	TATATTGTTA	TTTCATGTTC	2700
TACTTACGTG	ATAACTTATT	ATATATATAT	TTTCTTGTTA	TAGATATCGT	2750
GACTAATATA	TAATAAAATG	GGTAGTCTCT	TAGACGATGA	GCATATCCTC	2800
TCIGCTCTTC	TGCAAGCGA	TGACGAGCTT	GTGGTGAGG	ATTCTGACAG	2850
TGAAATATCA	GATCACGTAA	GTCGAAGATGA	CGTCCAGAGC	GATACAGAAG	2900
AAGCGTTTAT	AGATGAGGTA	CATGAAGTGC	AGCCAACGTC	AAGCGGTAGT	2950
GAAATATTAG	ACGAACAAAA	TGTTATTGAA	CAACCAGGTT	CTTCATTGGC	3000
TTCTAACAGA	ATCTTGACCT	TGCCACAGAG	GAATATTAGA	GGTAAGAATA	3050
AACATTGTGT	GTCAACTTCA	AAGTCCACGA	GGGTAGCCG	AGTCTCTGCA	3100
CTGAACATTG	TCAGATCTCG	AGCTCAAGCT	TCGAATTCTG	CAGTCGACGG	3150
TACCCGATCT	TGTGCGCCGA	ACGCAGCGAC	AGAGATTCCA	ATGTGTCCGT	3200
ATCTTTCAGG	CTTTTGCCCT	TCAGTTCCAG	ACGAAGCGAC	TGGCGATTCTG	3250
CGTGTGGGGT	CTGCTTCAGG	GTCCTGTGAA	TTAGGGGCGG	CAGATCGCCG	3300
ATGGGCGTGG	CGCCGGAGGG	CACCTTCACC	TTGCCGTACG	GCTTGTCTGT	3350
CTTCGCGTTC	AAAATCTCCA	GCTCCATTTT	GCTTTCGGTG	CGCTTGTCAAT	3400
CAGTACTGTC	CAAAATCGAA	AATCGCCGAA	CCGTAGTGTG	ACCGTGCGGG	3450
GCTCTGCGAA	AATAAACTTT	TTTAGGTATA	TGGCCACACA	CGGGGAAAGC	3500
ACAGTGGATT	ATATGTTTTA	ATATTATAAT	ATGCAGGTTT	TCATTACTTA	3550
TCCAGATGTA	AGCCCACTTA	AAGCGATTTA	ACAATTATTT	GCCGAAAGAG	3600

Fig. 6b



10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
TAAAAACAAA	TTTCACITTA	AAATGGATTA	AGAAAAGCTT	GTGTAAGATT	3650
ATGCGCAGCG	TTGCCAGATA	GCTCCATTTA	AAACACTTCA	AAAACAATAA	3700
GT'TTTGAAAA	TATATACATA	AATAGCAGTC	GT'TGCGCAA	CGCTCAACAC	3750
ATCACACTTT	TAAAACACCC	TTTACCTACA	CAGAATTACT	TTTTAAATTT	3800
CCAGTCAAGC	TGCGAGTTTC	AAAATTATAG	CCGGTAGAGA	AGACAGTGCT	3850
ATTTCAAAG	CAAATAAAT	AAACACCAAT	CCTAACAAAG	CTTGGACTTT	3900
TGTAAGTTTA	GATCAAAGGT	GGCATTGCAT	TCAATGTCAT	GGTAAGAAGT	3950
AGGTGCTCTA	GGTAGAAATC	CTCATTCAGC	CGGTCAAGTC	AGTACGAGAA	4000
AGGTCTCAAT	TTGAAATTGT	CTTAAAAATA	TTTTATTGTT	TTGTACTGIG	4050
GTGAGTTTAA	ACGAAAAACA	CAAAAAAATA	GTGATACACA	GAAATCATAA	4100
AAAATTTTAA	TACAAGGIAT	TOGTACGIAT	CAAAAACATT	TOGGCACAAT	4150
TTTTTTTCTC	TGTACTAAAG	TGTTACGAAC	ACTACGGIAT	TTTTTAGTGA	4200
TTTTTCAACG	ACACCGAAGG	TATATAAACA	GCGTTGCGGA	ACGGTCGCCT	4250
TCAAAACCAA	TTGACATTTG	CAGCAGCAAG	TACAAGCAGA	AAGTAAAGCG	4300
CAATCAGCGA	AAAATTTATA	CTTAATTGTT	GGTGATTAAA	GTACAATTAA	4350
AAGAACATTTC	TCGAAAGTCA	CAAGAAACGT	AAGTTTTTTAA	CTCGCTGTTA	4400
CCAATTAGTA	ATAAGAGCAA	CAAGACGTTG	AGTAATTTCA	AGAAAACTTG	4450
CATTTCAGG	TCTTTGTTCG	GCCATTTTTT	TTTTATTCAA	CGCTCTACGT	4500
AATTACAAAA	TAAGAAATTG	GCAGCCACGC	ATCTTGTTTT	CCCAATCAAT	4550
TGGCATCAAA	ACGCAAAACA	ATCTATAAAT	AAAACCTGCG	TGTTGATTTT	4600
CGCCAAGATT	TATTGGCAAA	TTGIGAAATT	CGCAGTGACG	CATTTGAAAA	4650
TTCGAGAAAT	CACGAACGCA	CTCGAGCATT	TGIGIGCATG	TTATTAGTTA	4700
GTTAGTTCTT	TGCTTAATTG	AAGTATTTTA	CCAACGAAAT	CCACTTATTT	4750
TTAGCTGAAA	TAGAGTAGGT	TGCTTGAAAC	GAAAGCCACG	TCTGGAAAAT	4800
TTCTTATTGC	TTAGTAGTTG	TGACGTCACC	ATATACACAC	AAAATAATGT	4850
GIATGCATGC	GTTTCAGCTG	TGTATATATA	CATGCACACA	CTCGCATTTAT	4900
GAAAAAGATG	ACGAGCAACG	GAACAGGTTT	CTCAACTACC	TTTGTTCCTG	4950
TTTCTTTCGCT	TTCCTTTGTG	CCAATATTTC	TAGAGGGTTA	ATAGGGGTTT	5000
CTCAACAAAG	TTGGCGTCCA	TAAATAAGTT	TCCATTTTTT	ATTCCCCAGC	5050
CAGGAAGTTA	GTTTCAATAG	TTTTGTAAAT	TCAACGAAAC	TCATTTGATT	5100
TCGTACTAAT	TTTCCACATC	TCTATTTTGA	CCCGCAGAAT	AATCCAAAAT	5150
GCAGATCGGG	GATCCCACCC	CACCCAAGAA	GAAGCGCAAG	GTGGAGGACG	5200
ATCCCGTCGT	TTTACAACGT	CGTGACTGGG	AAAACCCCTG	CGTTACCCAA	5250
CTTAATCGCC	TTGCAGCACA	TCCCCCTTTC	GCCAGCTGGC	GTAATAGCGA	5300
AGAGGCCCGC	ACCGATCGCC	CTTCCCAACA	GT'TGCGGTTC	ACTCTAGAGG	5350
ATCCCCGGGA	TCCACCGGTC	GCCACCATGG	TGAGCAAGGG	CGAGGAGCTG	5400

Fig. 6c



10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
TTCAACGGGG	TGGTGCCCAT	CCTGGTGGAG	CTGGACGGCG	ACGTAAACGG	5450
CCACAAGTTC	AGCGTGTCCG	GCGAGGGCGA	GGGCGATGCC	ACCTACGGCA	5500
AGCTGACCCCT	GAAGTTCATC	TGCAACACCG	GCAAGCTGCC	CGTGCCCTGG	5550
CCCACCCCTG	TGACCACCCCT	GACCTACGGC	GTGCAGTGCT	TCAGCCCGCTA	5600
CCCCGACCAC	ATGAAGCAGC	ACGACTTCTT	CAAGTCCGCC	ATGCCCGAAG	5650
GCTACGTCCA	GGAGCGCACC	ATCTTCTTCA	AGGAACGACG	CAACTACAAG	5700
ACCCGCGCCG	AGGTGAAGTT	CGAGGGCGAC	ACCCCTGGTGA	ACCGCATCGA	5750
GCTGAAGGGC	ATCGACTTCA	AGGAGGACGG	CAACATCCTG	GGGCACAAGC	5800
TGGAGTACAA	CTACAACAGC	CACAACGTCT	ATATCATGGC	CGACAAGCAG	5850
AAGAACGGCA	TCAAGGTGAA	CTTCAAGATC	CGCCACAACA	TCGAGGACGG	5900
CAGCGTGCAG	CTCGCCGACC	ACTACCGACA	GAACACCCCC	ATCGGCGACG	5950
GCCCCGTGCT	GCTGCCCGAC	AACCACTACC	TGAGCACCCA	GTCCGCCCCG	6000
AGCAAAGACC	CCAACGAGAA	GCGCGATCAC	ATGGTCCCTG	TGGAGTTGGT	6050
GACCGCCGCC	GGGATCACTC	TCGGCATGGA	CGAGCTGTAC	AAGTAAAGCG	6100
GCCGCGACTC	TAGATCATAA	TCAGCCATAC	CACATTTGTA	GAGGTTTTAC	6150
TTGCTTTAAA	AAACCTCCCC	CACCTCCCCC	TGAACCTGAA	ACATAAAATG	6200
AATGCAATTG	TTGTTGTAA	CTTGTTTAT	GCAGCTTATA	ATGGTTACAA	6250
ATAAAGCAAT	AGCATCACAA	ATTTACAAA	TAAAGCATT	TTTTCACTGC	6300
ATTCTAGTTG	TGGTTTGTC	AAACTCATCA	ATGTATCTTA	AGGCGTAAAT	6350
TGTAAGCGTT	AATATTTTGT	TAAAATTGCG	GTAAATTTT	TGTTAAATCA	6400
GCTCATTTTT	TAACCAATAG	GCCGAAATCG	GCAAAATCCC	TTATAAATCA	6450
AAAGAATAGA	CCGAGATAGG	GTTGAGTGT	GTTCAGTTT	GGAACAAGAG	6500
TCCACTATTA	AAGAACGTGG	ACTCCAAAGT	CAAAGGGCGA	AAAACCGTCT	6550
ATCAGGGCGA	TGGCCCACTA	CGTGAACCAT	CACCCTAATC	AAGTTTTTTG	6600
GGGTGAGGT	GCCGTAAAGC	ACTAAATCGG	AACCTAAAG	GGAGCCCCCG	6650
ATTTAGAGCT	TGACGGGGAA	AGCCGGCGAA	CGTGGCGAGA	AAGGAAGGGA	6700
AGAAAGCGAA	AGGAGCGGGC	GCTAGGGCGC	TGGCAAGTGT	AGCGGTCACG	6750
CTGCGCGTAA	CCACCACACC	CGCCGCGCTT	AATGCGCCGC	TACAGGGCGC	6800
GTCAGGTGGC	ACTTTTCCGG	GAAATGTGCG	CGGAACCCCT	ATTTGTTTAT	6850
TTTTCTAAAT	ACATTCAAAT	ATGTATCCGC	TCATGAGACA	ATAACCCCTGA	6900
TAAATGCTTC	AATAATATTG	AAAAAGGAAG	AGTCCTGAGG	CGGAAAGAAC	6950
CAGCTGTGGA	ATGTGTGTCA	GTTAGGGTGT	GGAAAGTCCC	CAGGCTCCCC	7000
AGCAGGCAGA	AGTATGCAAA	GCATGCATCT	CAATTAGTCA	GCAACCAGGT	7050
GTGGAAGATC	CCAGGCTCC	CCAGCAGGCA	GAAGTATGCA	AAGCATGCAT	7100
CTCAATTAGT	CAGCAACCAT	AGTCCCGGCC	CTAACTCCGC	CCATCCCGCC	7150
CCTAACTCCG	CCAGTTCCG	CCCATCTCTC	GCCCCATGGC	TGACTAATTT	7200

Fig. 6d



10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
TTTTTATTTA	TGCAGAGGCC	GAGGCGCGCT	CGGCGCTCTGA	GCTATTCCAG	7250
AAGTAGTGAG	GAGGCTTTTT	TGGAGGAACC	ATTGIGGGAA	COGTGCGATC	7300
AAACAAACGC	GAGATACCGG	AAGTACTGAA	AAACAGTOGC	TCCAGGCCAG	7350
TGGGAACATC	GATGTTTTGT	TTTGAOCCAC	CCCTTACTCT	CGICTCATAT	7400
AAACCGAAGC	CAGCTAAGAT	GGTATACTTA	TTATCATCTT	GIGATGAGGA	7450
TGCTTCTATC	AACGAAAGTA	CCGGTAAACC	GCAAATGGTT	ATGTATTATA	7500
ATCAAATAA	AGGCGGAGTG	GACACGCTAG	AOCAAATGTG	TTCTGTGATG	7550
ACCTGCAGTA	GGAGAGCGAA	TAGGTGGCCT	ATGGCATTTAT	TGTACCGAAT	7600
GATAAACATT	GCCTGCATAA	ATTCTTTTTAT	TATATACAGC	CATAATGTCA	7650
GTAGCAAGGG	AGAAAAGGTC	CAAAGTCGCA	AAAAATTTAT	GAGAAACCTT	7700
TACATGAGCC	TGACGTCATC	GTTTATGGGT	AAGCGTTTAG	AAGCTCCTAC	7750
TTTGAAGAGA	TATTTGCGCG	ATAATATCTC	TAATATTTTG	CCAAATGAAG	7800
TGCGTGGTAC	ATCAGATGAC	AGTACTGAAG	AGCCAGTAAT	GAAAAAACGT	7850
ACTTACTGTA	CTTACTGCCC	CTCTAAAATA	AGGCGAAAGG	CAAATGCCATC	7900
GTCGAAAAAA	TGCAAAAAAG	TTATTTGTGG	AGAGCATAAT	ATTGATATGT	7950
GCCAAAGTTG	TTTCTGACTG	ACTAATAAGT	ATAATTTGTT	TCTATTATGT	8000
ATAAGTTAAG	CTAATTACTT	ATTTTATAAT	ACAACATGAC	TGTTTTTAAA	8050
GTACAAAATA	AGTTTATTTT	TGTAAAAGAG	AGAATGTTTA	AAAGTTTTGT	8100
TACTTTATAG	AAGAAATTTT	GAGTTTTTGT	TTTTTTTTTAA	TAAATAAATA	8150
AACATAAATA	AATTGTTTTG	TGAATTTTAT	ATTAGTATGT	AAGTGTAAT	8200
ATAATAAAAC	TTAATATCTA	TTCAAATTAA	TAAATAAACC	TCGATATACA	8250
GACCGATAAA	ACACATGCGT	CAATTTTACG	CATGATTATC	TTTAAOGLAC	8300
GTCACAATAT	GATTATCTTT	CTAGGGTTAA	ATAATAGTTT	CTAATTTTTT	8350
TATTATTTCAG	CCCTGCTGTG	TGAATACCGT	ATATCTCAAC	GCTGTCTGTG	8400
AGATTGTGGT	ATTCTAGCCT	TTTTAGTTTT	TGGCTCATCG	ACTTGATATT	8450
GTCGACACA	TTTTGCTGCA	TTTGGGTTTT	GATCAAAGAC	TTGAGCAGAG	8500
ACACGTTAAT	CAACTGTTCA	AATTGATCCA	TATTAAOGAT	ATCAACCCGA	8550
TGCGTATATG	GTCGTTAAAA	TATATTTTTT	AACCCCTCTA	TACTTTGCAC	8600
TCTGCGTTAA	TACGCGTTGG	TGTACAGACG	TAATCATGTT	TTCTTTTTTT	8650
GATAAACTC	CTACTGAGTT	TGACCTCATA	TTAGACCCCT	ACAAGTTGCA	8700
AAACGTGGCA	TTTTTTTACCA	ATGAAGAATT	TAAAGTTATT	TTAAAAAATT	8750
TCATCACAGA	TTTAAAGAAG	AACCAAAAAT	TAAATTATTT	CAACAGTTTA	8800
ATCGACCAAT	TAATCAACGT	GTACACAGAC	GCGTCGGCAA	AAAACACGCA	8850
GCCCGACGTG	TTGGCTAAAA	TTATTAAATC	AACCTGTGTT	ATAGTACCGG	8900
ATTTGCCGTC	CAACGTGTTT	CTCAAAAAGT	TGAAGACCAA	CAAGTTTACG	8950
GACACTATTAA	ATTATTTGAT	TTTGCCCCAC	TTCATTTTGT	GGGATCACAA	9000

FIG. 6e



10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
TTTTGTTATA	TTTTAAACAA	AGCTTGGCAC	TGGCCGTTCGT	TTTACAAAGT	9050
CGTGAAGTGGG	AAAACCCCTGG	CGTTACCCAA	CTTAATCGCC	TTGCAGCACA	9100
TCCCCCTTTC	GCCAGCTGGC	GTAATAGCGA	AGAGGCCCCG	ACCGATCGCC	9150
CTTCCCAACA	GTGCGCAGC	CTGAATGGCG	AATGGCGOCT	GATGCGGTAT	9200
TTTCTCCTTA	CGCATCTGTG	CGGTATTICA	CACCGCATAT	GGTGCACCTCT	9250
CAGTACAATC	TGCTCTGATG	CGCATAGTIT	AAGCCAGCCC	CGACACCCGC	9300
CAACACCCGC	TGACGCGCCC	TGACGGGCTT	GTCTGCTCCC	GGCATCCGCT	9350
TACAGACAAG	CTGTGACCGT	CTCCGGGAGC	TGCATGTGTC	AGAGGTTTTTC	9400
ACCGTCATCA	CGAAACGCG	CGA			9423

FIG. 6 f



FIG. 7a



FIG. 7b



FIG. 7c



FIG. 7d

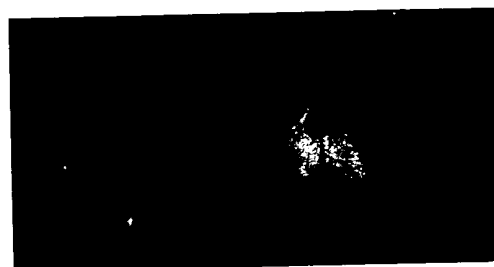


FIG. 7e



FIG. 8a



FIG. 8b



FIG. 8c



FIG. 8d



FIG. 8e



FIG. 9a



FIG. 9b

OIP E
MAY 12 2003
NORTH TEXAS OFFICE 4203

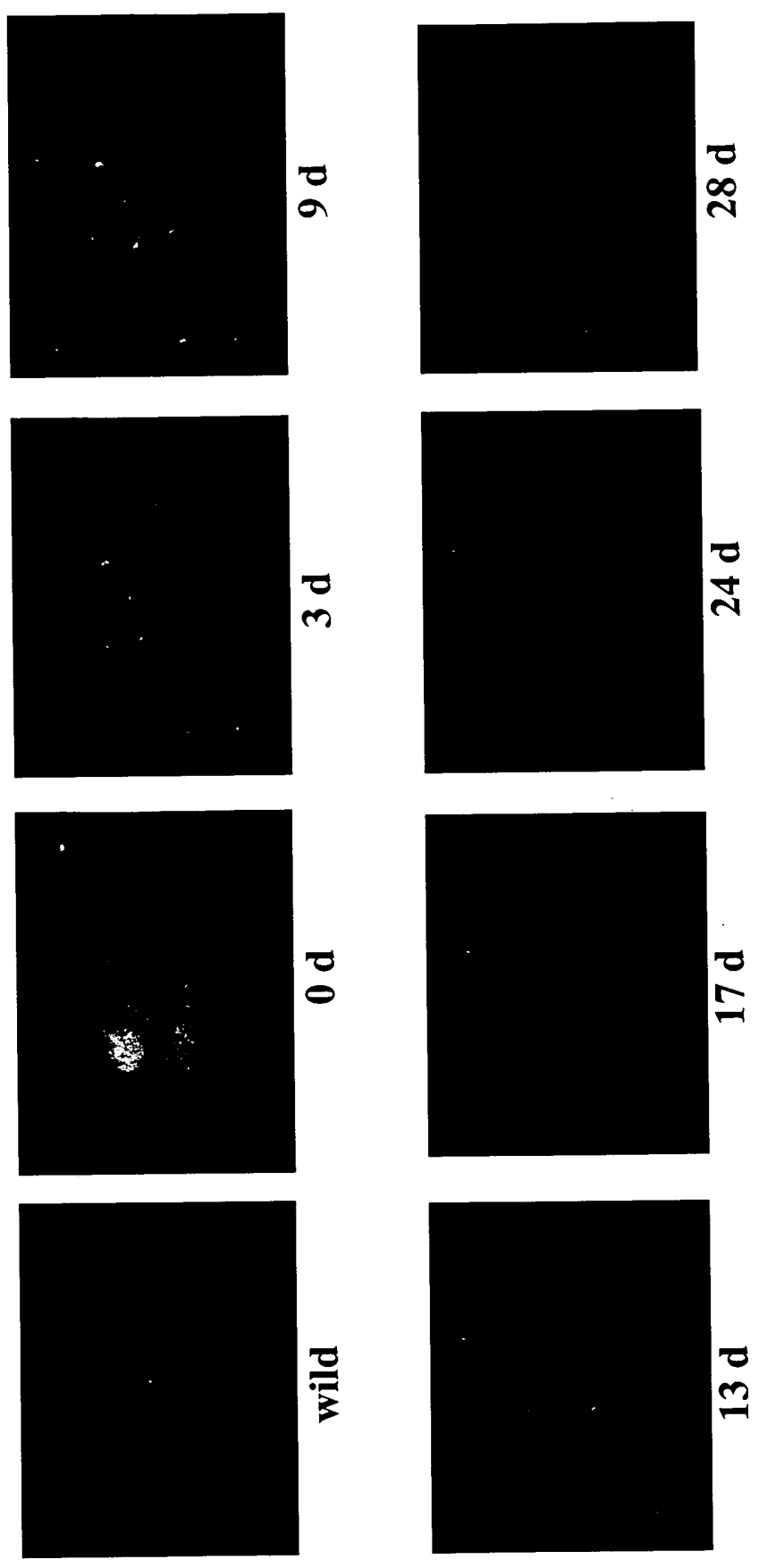


Fig. 10

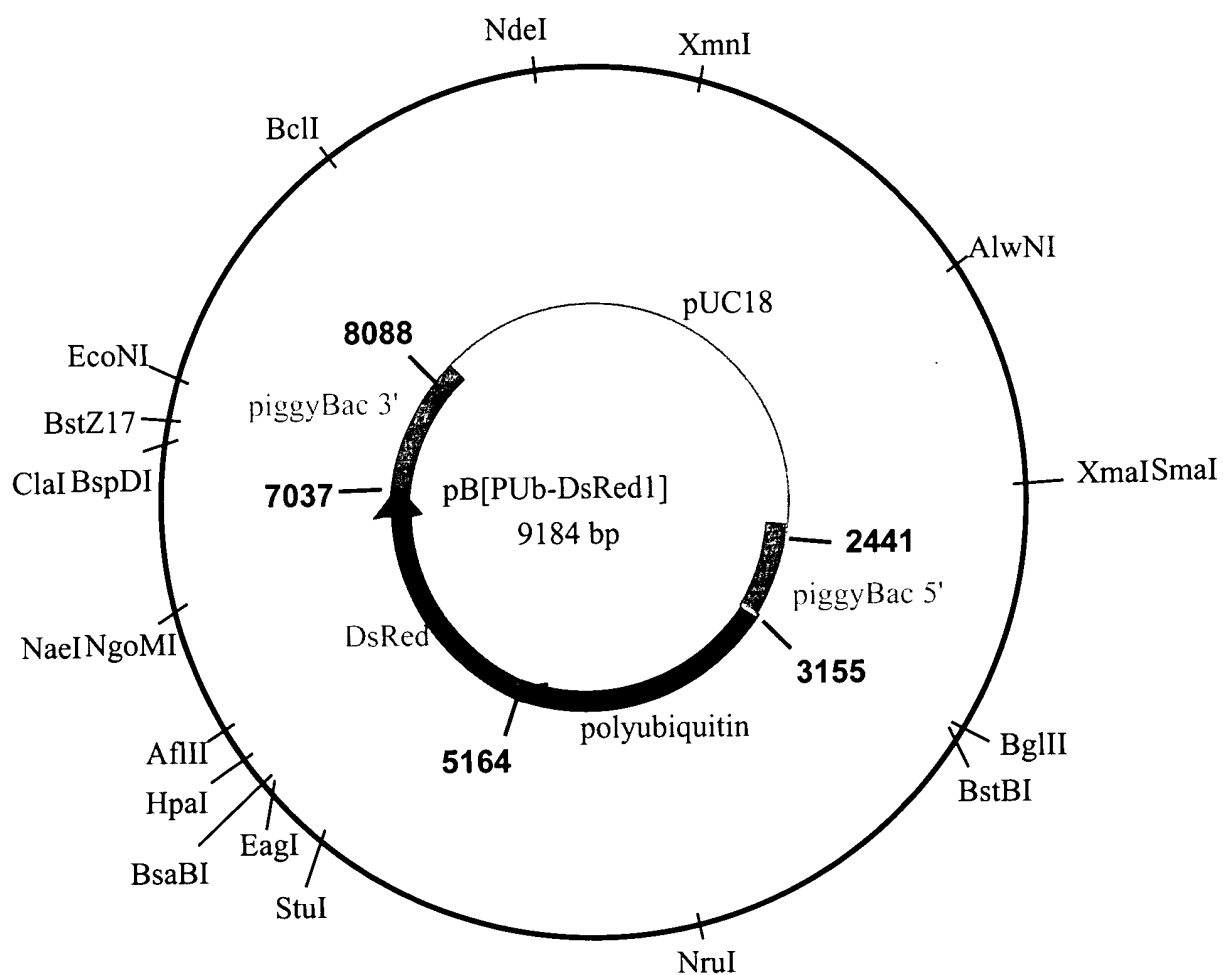


Fig. 11

U I P E
MAY 12 2003
UNIT & TRADE MARK OFFICE

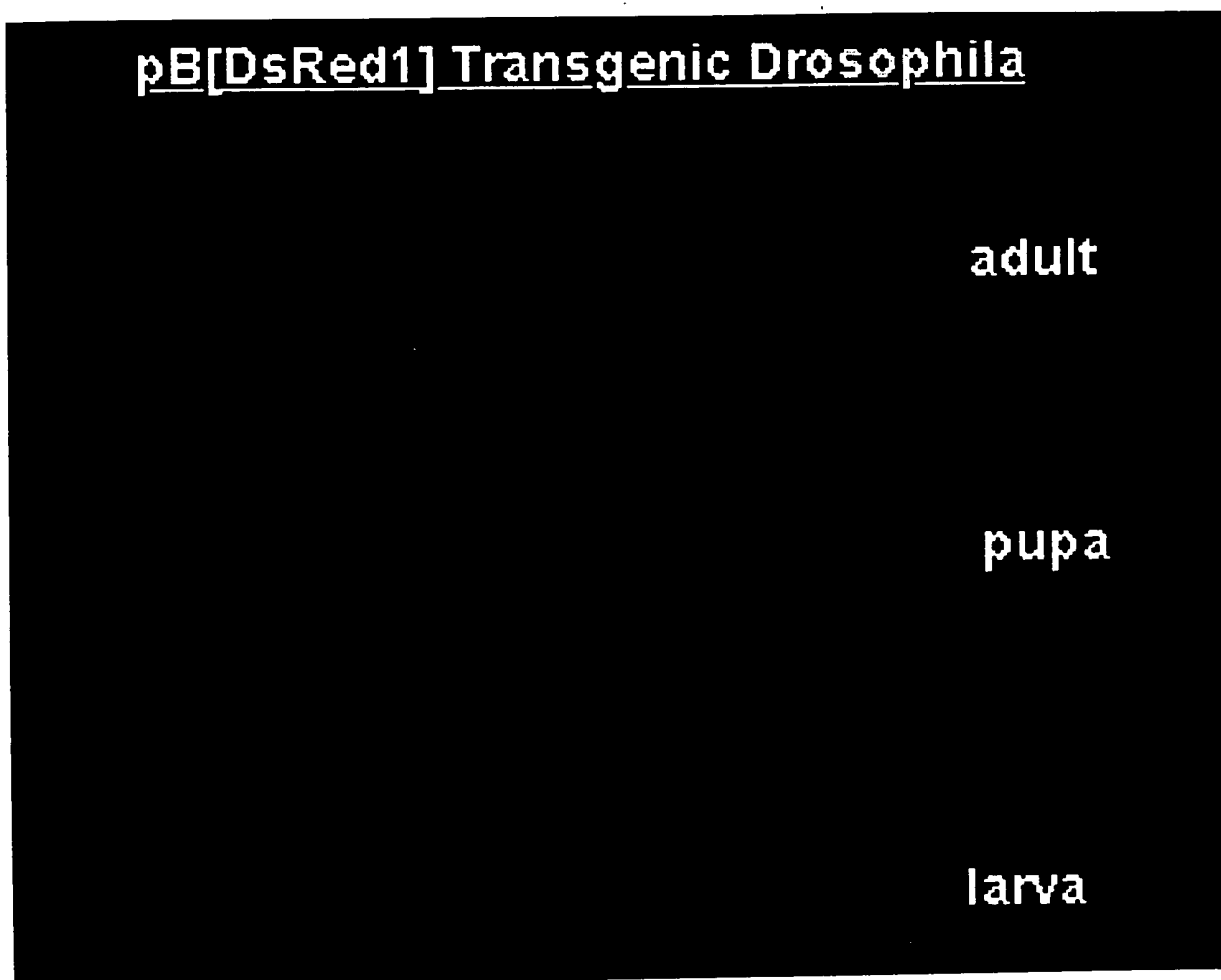


Fig. 12



Expression of DsRed in *Drosophila* transformed
with pB[PUB-DsRed]

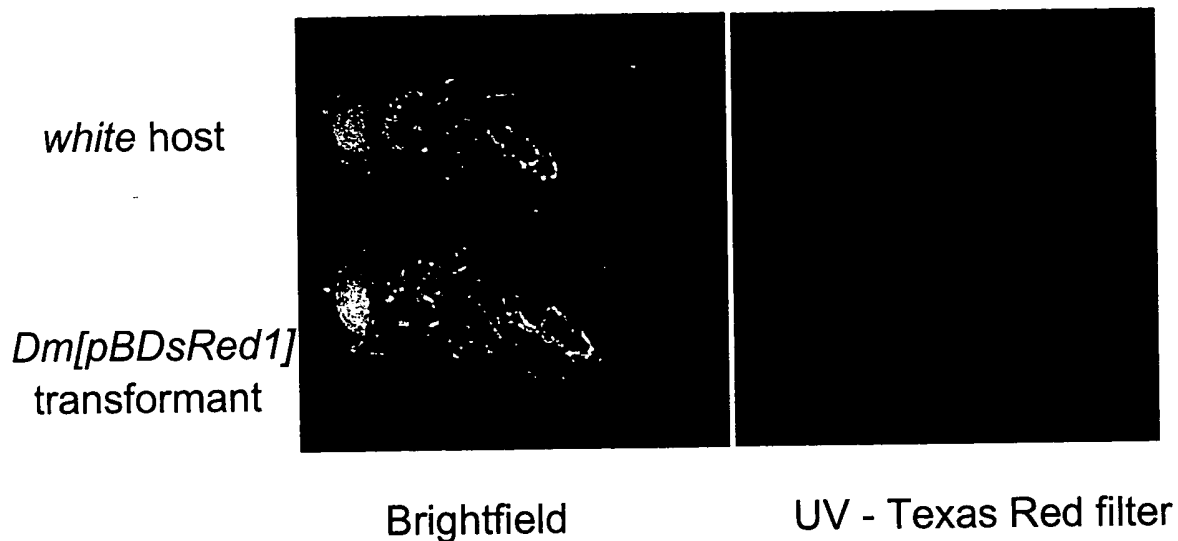
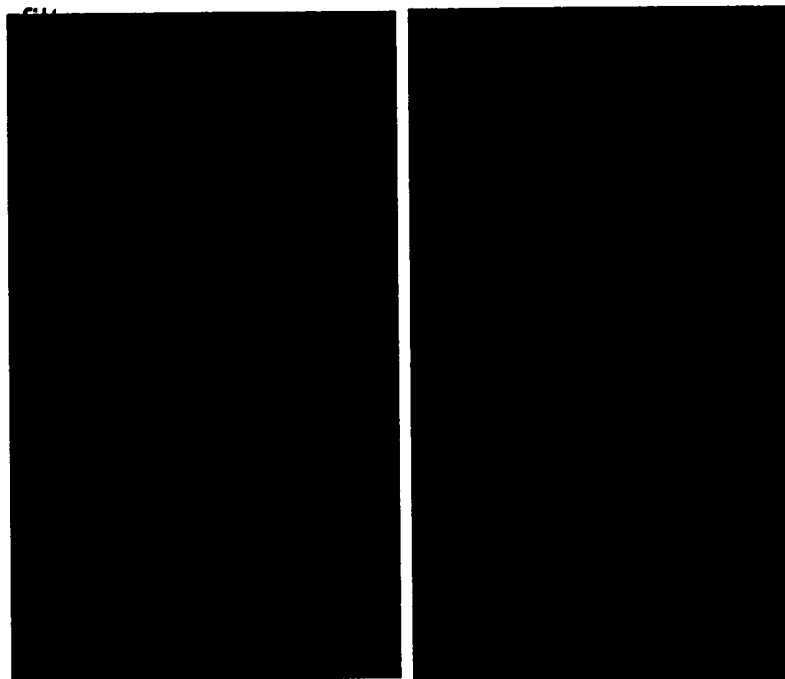


Fig. 13



Expression of DsRed in Caribfly transformed
with pB[PUB-DsRed1] under a Texas Red



ventral

dorsal

Fig. 14



Expression of DsRed in Caribfly transformed with pB[PUB-DsRed1]

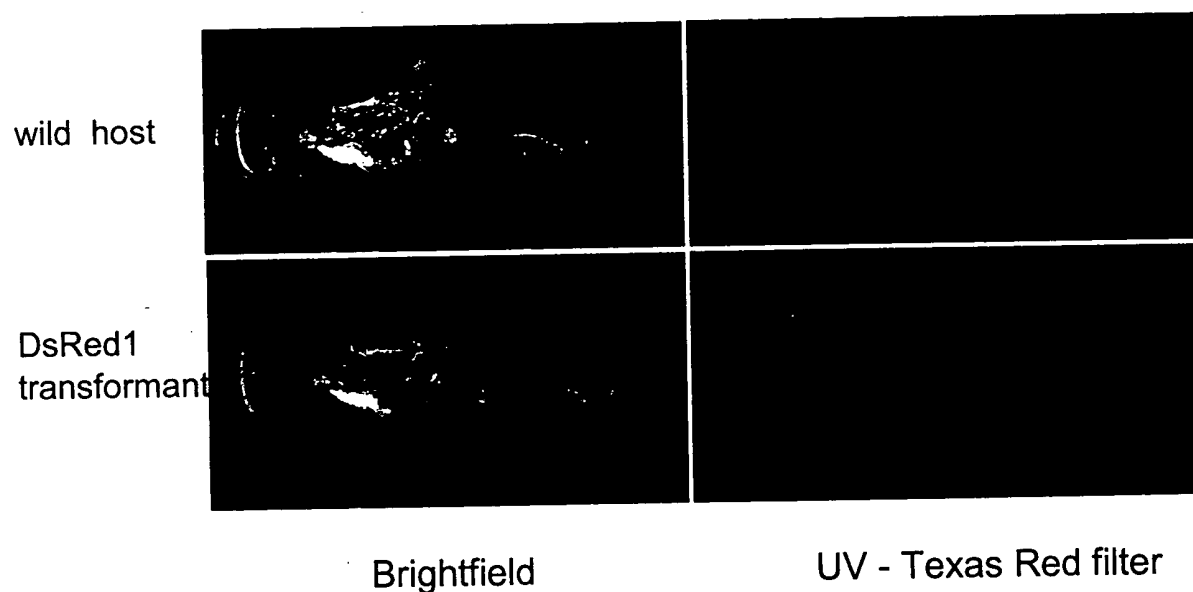


Fig. 15